

COUPLING BANDS FOR METAL PIPE CULVERT ^{1/}					
CORRUGATION SIZE ^{2/}	PIPE DIAMETER	PIPE-ARCH SPAN X RISE	MINIMUM BAND WIDTH		
			ANNULAR ^{3/} CORRUGATED BANDS	HELICALLY ^{4/} CORRUGATED BANDS	SEMI- ^{5/} CORRUGATED BANDS
INCHES	INCHES	INCHES	INCHES	INCHES	INCHES
1 1/2 by 1/4	underdrain ^{6/}	-	7	7	10 1/2
2 2/3 by 1/2	12 to 36	17x13 to 42x29	7	12	10 1/2
	42 to 72	49x33 to 83x57	10 1/2	12	10 1/2
	78 to 84	-	10 1/2	12	10 1/2
3 by 1	36 to 72	42x29 to 81x59	12	14	10 1/2
	78 to 144	87x63 to 142x91	12	14	10 1/2
5 by 1	48 to 72	57x38 to 81x59	20	22	10 1/2
	78 to 144	87x63 to 142x91	20	22	10 1/2

^{1/} Fabricate annular, helical and semi-corrugated type coupling bands from the same metal as the connecting pipe. Provide coupling bands not more than 3 nominal sheet thicknesses thinner than the thickness of the pipe to be connected, and no thinner than 0.052 inch (18 gage) for steel or 0.048 inch (18 gage) for aluminum. Fasten coupling bands with the following sizes of bolt:

3/8" diameter - 18" (21"x15" pipe arch) or less
1/2" diameter - 21" (24"x18" pipe arch) or more

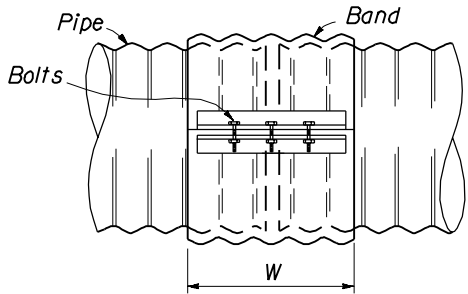
^{2/} For helically corrugated pipe with rerolled ends, the nominal corrugation size refers to the dimension of the end corrugation in the pipe.

^{3/} Use annular corrugated bands with pipes having annular corrugations or with helical pipe having rerolled ends to form annular corrugations. A 10 1/2 inch band is acceptable on pipe ends rerolled with 2 2/3 by 1/2 inch corrugations. A 12 inch band is acceptable on pipe ends rerolled with 3 by 1 inch pipe corrugations.

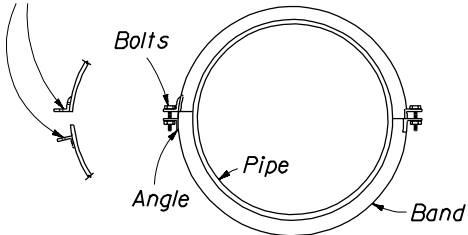
^{4/} Use helical corrugated bands with pipes having helically corrugated ends.

^{5/} The minimum band widths shown for 3 by 1 and 5 by 1 inch corrugated sizes apply to 2 2/3 by 1/2 corrugations on rerolled pipe ends.

^{6/} Smooth sleeve-type couplers and flat bands may be used for pipe diameters of 12 inches or less. Use a matching metal having a nominal thickness of not less than 0.040 inch (20 gage) for steel, or 0.036 inch (20 gage) for aluminum, or a plastic with an equivalent strength to metal.



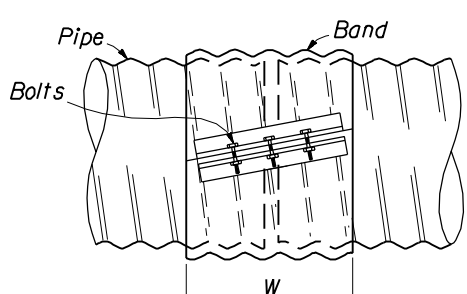
SIDE VIEW
Rivet, Spotweld, or Fillet weld at crest of corrugation at heel and toe of angle.



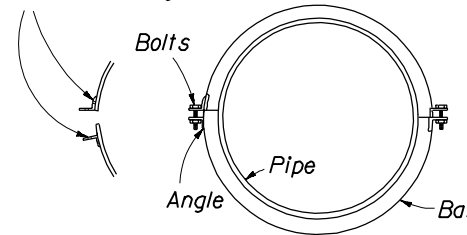
END VIEW

Note:
Second angle connection optional to 42" diameter, required above 42" diameter.

ANNULAR BAND



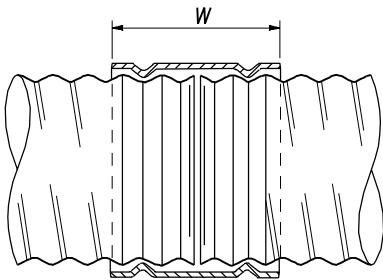
SIDE VIEW
Rivet, Spotweld, or Fillet weld at crest of corrugation at heel and toe of angle.



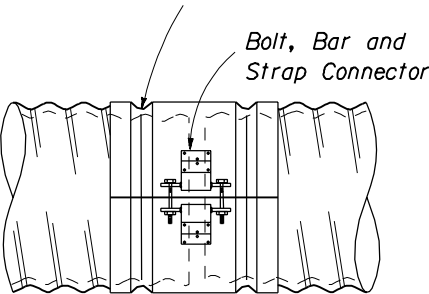
END VIEW

Note:
Second angle connection optional to 42" diameter, required above 42" diameter.

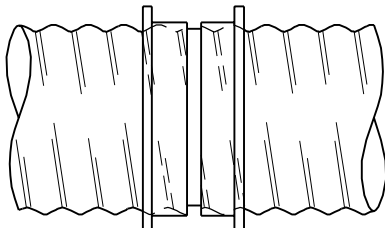
HELICAL BAND



Continuous corrugation around band meshes with second annular corrugation in pipe end.

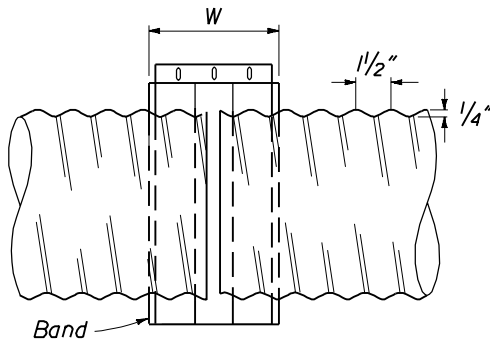


SEMI-CORRUGATED BAND



SLEEVE JOINT
Smoother sleeve with center stop. Stab type joint.

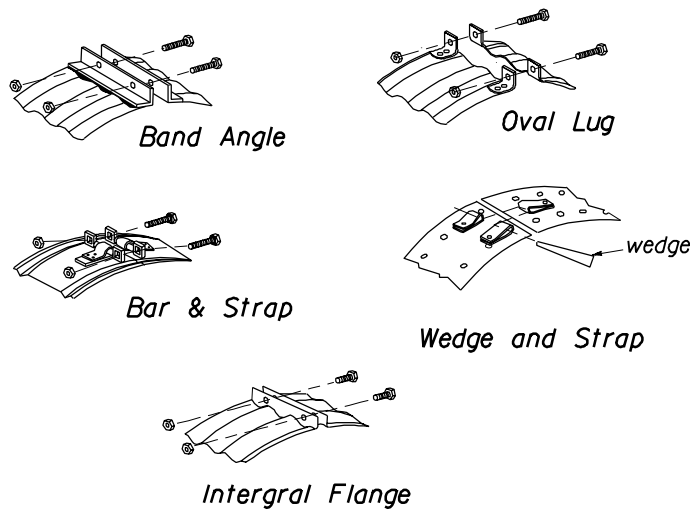
SMOOTH SLEEVE BAND



CROSS SECTION THRU PIPE JOINTS
FLAT BAND

NOTE:

1. Watertight pipe joints are not required unless specified in the Special Contract Requirements.
2. Other types of coupling bands or fastening devices that comply with the joint performance criteria of AASHTO Standard specifications for Highway Bridges, Division II Section 26 may be used.



STANDARD BAND CONNECTIONS

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

STANDARD

**METAL PIPE CULVERT
COUPLING BAND**

STANDARD APPROVED FOR USE --/----

REVISED:

STANDARD
602-2

NO SCALE